THE TECH

DAILY

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PIERCE OF HARVARD GIVES TALK ON "WIRELESS"

Praises Work Of Wireless Society And Explains Actions Of Detectors

"Amateur interference in wireless telegraphy is a good thing in one way, as the more we have of it the quicker the inventors will originate some device to do away with it," said George W. Pierce, Professor of Physics in the Jefferson Physical Laboratory, Harvard, last evening to over two hundred students at the Friday evening intertainment at the Union. Professor Pierce gave considerable credit to the Technology Wireless Society for the work they are undertaking and the campaign being waged to stamp out needless interference among amateur operators. The history of wireless telegraphy was gone over and a simple explanation of occillation currents traced. Many forms of crystal rectifiers for electric currents and electric oscillations were described. A valuable series of lantern slides was shown illustrating current voltage characteristic and thermo-electric effects for different crystals.

Prof. Pierce was introduced by Pres. E. B. Moore of the Wireless Society, before which the lecture was given. The thermo-electric theory of the crystal detectors was explained and the fact that it is groundless demonstrated. Numerous experiments, carried out by Prof. Pierce have proven conclusively the incorrectness of this theory. A number of experiments were described showing adverse facts.

The action of the electrolytic and other detectors was carefully gone into, illustrated by a number of remarkable slides showing the action of the rectified current passing through it. Prof. Pierce was very willing to answer all questions and the men improved this opportunity for further explanation.

FRESHMAN MEETING

Benson 1912 To Be Supervisor Of 1913 Track Team

At the meeting of the freshman class yesterday, nominations for managers of the teams were considered.

At the opening of the meeting the reports of the secretary and the treasurer were read. Treasurer H. L. Birchard's report showed a deficit of one hundred and six dollars in the class treasury. He urged those present to pay their class dues and to see that their fellow class-mates also paid. He remarked that out of the many dollars that each man pays out in year it is a very small thing for the class to ask of its members.

President Holmes requested that nominations for manager of the freshman track team be handed in at the Cage by 4 P. M. Monday. At the same time and place nominations for next year's football manager will also be due.

At the suggestion of Captain Burnham of the 1913 relay team, the class voted to appoint Harvey Benson 1912 as general supervisor of the proposed freshman track team. Benson is at the same time assistant manager of the varsity track team.

President Holmes reminded the men of the indoor interclass meet on Jan. 12. As this meet offers another opportunity for men to win their numerals he strongly urged a good representation from the freshman class.

INTERNATIONAL FEDERATION OF COLLEGE STUDENTS

Cosmopolitan Clubs Aim To Promote Friendly Relations Among The Nations

The third annual convention of the Association of Cosmopolitan Clubs was held at Ithaca, Dec. 22-24, under the auspices of the Executive Chapter at Cornell University. A description of the organization and purposes of these clubs has been obtained in an interview with Pres. Benj. F. Trueblood of the American Peace Society.

The movement leading to the organization of these clubs is a comparatively recent one, the first chapter being instituted at the University of Wisconsin about five years ago. Since that time interest has increased rapidly, until there are at present ninteen regular chapters and four others in process of organization.

Primarily the Association of Cosmopolitan Clubs stands for the promotion of friendship and friendly relations among young men of the different nations. This naturally leads to their identification with the movement toward international peace, and the National Association is now an auxiliary of the American Peace Society in a more or less nominal way.

Mr. L. P. Lochner, now holding a fellowship in Journalism at the University of Wisconsin, was one of the earliest promoters of the movement, and he has just been elected permanent secretary of the combined clubs. He is also to be the editor of what has heretofore been the Cosmopolitan Annual, but which is now to be published much oftener. This magazine is devoted to the development of the movement.

The basis of the organization of a Cosmopolitan Club at any of the various colleges of the country is the number of foreign students attending that college. Inasmuch as the object of the club is an international one, it has been considered wise to limit the number of American students who may become members, the custom being that they shall not exceed the number of foreign students.

Nearly all of the larger American colleges are now affiliated with the Association, there being chapters at the present time at the Universities of Wisconsin, Michigan, Illinois, Iowa, Missouri, Washington and Pennsylvania, at Cornell, Purdue, Ohio State, Chicago University, Leland Stanford, Iowa State, Harvard, Northwestern University, Oberlin College, Missouri School of Mines, Worcester Polytechnic Institute, and Syracuse; those in process of organization being at Columbia, Yale, Parke College, and Virginia.

Harvard has the largest Cosmopolitan Club at the present time, the membership there being nearly two hundred. This is, of course, due primarily to the large number of foreign students who attend that institution. Cornell follows with about one hundred and sixty members, of whom only a few more than half are foreign students. The average membership is between twenty and seventy or eighty.

About two years after the organization of the first club the National Association was formed to include all clubs desiring to be affiliated with it. At the Convention just held it was voted to include in the Association two European organizations similar in character to the Cosmopolitan Clubs in this country, the Italian Corda Fratres, and the French International Student Society, and accordingly the name of the

(Contined on page 2.)

HISTORY OF MECHANICAL ENGINEERING SOCIETY

Organized As Debating Club---Now In Flourishing Condition

On the morning of the 30th of March 1881, a paper written by Mr. T. B. Carson 1882, appeared in The Tech proposing the organization of a debating society, of which all members of the school should be members. As a result of this article, a discussion started on the next day among the members of the Junior class in mechanical engineering as to the advisability of forming a society whose members should all be connected with the department.

A meeting of the department was accordingly held on the following Monday and the Sigma M. E. Society was organized. At the start, the meetings were held once a week, when various subjects were discussed and papers were read by the members. At various times prominent engineers were asked to address the society and some very interesting talks were given.

During the mid-year vacation in February, 1882, a trip was taken through western Massachusetts and Connecticut and a great many places of interest were visited. The next year a similar trip was taken to New York and Philadelphia. About twenty-five went on the trip which was very successful. For the next few years the society had various ups and downs. It has had several deaths, each one followed by a rebirth, until the fall of 1901, when it was entirely reorganized and since then has been steadily on the increase.

The society now holds meetings about twice a month at which experienced engineers address the members and give them ideas of how work is actually done in practice. This enables the students to get in closer touch with older men of their profession and gives them a better understanding of their own work. It is also planned to have meetings at which the members read papers, which they have prepared, or else discussions are held on various subjects connected with mechanical engineering; some of these meetings take the form of dinners, followed by the discussion or talk while others are of a more informal nature.

It is the idea of the society to develope the social side of the work as much as possible for it is just as important for a man to know his fellow men as to know his studies. The society offers one of the best opportunities that a man has for meeting the other men in his course.

Practical lessons are also gained from the trips which the society conducts during the year to places of interest nearby. This feature of the society has proved very popular.

An arrangement has just been completed which it is believed is an important step forward. This is the affiliation with American Society of Mechanical Engineers. This will give to the members many of the privileges of the national society. They will be allowed to attend its meetings and to take part in the discussions. The reports of the meeting of the local society will be published in the Journal of the A. S. M. E., which the members can obtain at greatly reduced rates. This will bring the work of the society before the engineering world and will enable the members to further the reputation of the Institute. Plans are also under way for some meetings at which members of the society wil present papers.

The society at present numbers about one hundred and fifty, is an a very prosperous condition and fills an important place in the social life of the Institute.

TWO GOOD BASKET-BALL CONTESTS AT GYM TONIGHT

Varsity Five vs. Lowell Textile ---Freshmen And Sophomores Also Clash

The gymnasium will be the scene of two Basket Ball contests tonight. The regular varsity five will clash with the Lowell Textile School team, while between the halves the first game of the annual series between the Freshmen and the Sophomore teams is to be played.

Capt. Parker is very hopeful of winning, although the Lowell Textile team is very fast. The Tech five is crippled in the loss of Avery, who injured his finger in the game with Tufts, so that he will be unable to play. The team will be composed of Hargraves and Johnson, forwards, Parker, center, and Crocker and Bennis, backs.

A comparison of the Sophomore and Freshman teams is rather difficult. 1912 has played only one practice game this season, they having defeated Boston College. 1913 has played two regular games, defeating Newton High 23-17, and losing to Winchester High 23-34.

The sophomores have a veteran team, with the exception of F. L. Mowry, the center, but the freshmen have several former high school cracks. The lineup for the game is as follows:

1912	1913
Kendrick, f	f, Thompson, Welch
Albee, f	f Cahill, McCarthy
Mowry, c	c, Elwell
Freedman, b	b, Muther
Stone, b	b, Capen

FAST GAME EXPECTED

Hockey Team Meets Brae-Burn This Afternoon

The Hockey Team meets the strong Brae-Burn team at Brae-Burn this afternoon at 3.00. Things look favorable for the Tech aggregation, the only weak position being at goal.

By way of comparison of the two teams, the fact that Harvard won from Brae-Burn with a score of 7-1 and from Tech by only 4-1 would seem to give Tech a slight advantage. On the other hand, Dartmouth was beaten by Brae Burn by a larger score than by M. I. T., which would tend to even up the advantage.

At any rate, there is no question but that the game this afternoon will be a good one, and that both teams will have to do their best.

The Tech line up will be as follows: O'Hearn, Sloane, Stucklen or paine, and R. Gould, forwards; A. Gould or Eichorn, cover point; Billings, point, and Poblemus or Hurley, goal.

The sophomore class of Harvard is planning a series of four dinners to each of which one-fourth of the class will be invited. In this way each member of the large class will be able to attend one such dinner, and none can feel hurt at being excluded.

CALENDAR.

Saturday, Jan. 8.

2:30 Hockey: Tech vs. Brae-Burn at Brae-Burn.
7:30 Aero Club Meeting, Union.
8:00 Basket Ball: Tech vs. Lowell Textile; 1912 vs. 1913 at Gym.

Monday, Jan. 10.

4:15 Gym Team Practise at Gym.

THE TECH.

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COMMUNICATION

To the Editor of the Tech:

The class of 1913 has inaugurated a new custom, that of having a Freshman Indoor Track Team. If schedule of meets is to be arranged, sufficient candidates must report to insure a team worthy of Technology and 1913. Up to the present, very few Freshmen have been seen at the gym for track work, and prospects are far from bright.

The first meet will be January 12, the Annual Interclass Indoor Meet. The showing of 1913 on this occasion will largely determine the possibilities of the team, and whether it is fit to represent the Institute and the class. Let every man report for practice, and uphold the record of 1913.

H. S. BENSON 1912.

AERO CLUB MEETING

Mr. Henry Morss will speak to members of the Aero Club this evening at 7.30 in the Union. He will tell something of what is being done in aviation, and will illustrate his talk with some very interesting pictures.

The engagement of Mr. Harvey S. Pardee, VI, '09, to Miss Clarissa Belle Evans, formerly student and instructor at the Faelton Piano School, is announced.

Raynor H. Allen '10, Captain of the Track Team, is sick with scarlet fever.

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INTERNATIONAL FEDERATION

(Continued from page 1.)

Association has been changed to the International Federation of Students. Conventions are held annually.

There are now seventy-nine students from foreign countries registered at the Institute, and, with an equal number of American students, there is a good foundation for the organization of a successful club here. The opinion of the faculty seems to be that, if properly handled, such a society would be an excellent addition to the social organizations already in existence at the Institute. Dr. Trueblood is of the opinion that, considering the large number of foreign students who atend the Institute, much benefit would result in a cultivation of a more friendly relation between them and the American students.

SEVERAL NEW FEATURES

Architectural Record Contains Article By Prof. Lanza

The new issue of The Technology Architectural Record appeared near th last of December. In this issue two new features appear: the first a department devoted to placing before architectural professors the results of tests and experiments at the Institute laboratories, which have to do with theadvancement of modern methods of construction. In this relation, there appears an article by Professor Gaetano Lanza and Mr. Lawrence Smith on reinforced concrete. In the following number there will appear "The Construction of Chemical Laboratories" by Prof. Augustus H. Gill.

The other feature which the Record has adopted as its future policy is illustrations of the work of former students of the department. In connection with these, there will be published an account of the conditions met and overcome.

While it is hoped in time to cover work of graduates in all parts of the country, this issue shows the works in Boston, Chicago, and New York.

The regular features consist of the reproduction of last year's winning and honorable mention drawing, including that for the 1909 Traveling Fellowship Competition, advanced design, and second year of design.

The drawings for the Boston Society of Architects' Prizes for regular and special students are reproduced. The object was a monumental clock.

This number appears as the first of the third volume. There will be three more, in March, June, and September. Volume one had four much smaller numbers, and volume two only two numbers, with more material in each one. As the publication has a large circulation outside among the architectural profession it acts largely to bring Institute methods into view.

CURRENT EVENTS

During a spectacular forty-five-minute flight at Mourmelon, France, yesterday, Hubert Latham, the French aviator, attained an attitude unofficially estimated at 1000 meters, the highest altitude ever reached by an aeroplane. Latham at present holds the official record for altitude, although owing to the difficulty in measuring height there is a discrepancy as to the exact altitude reached by him. The height of his official flight is estimated as between 500 and 550 meters.

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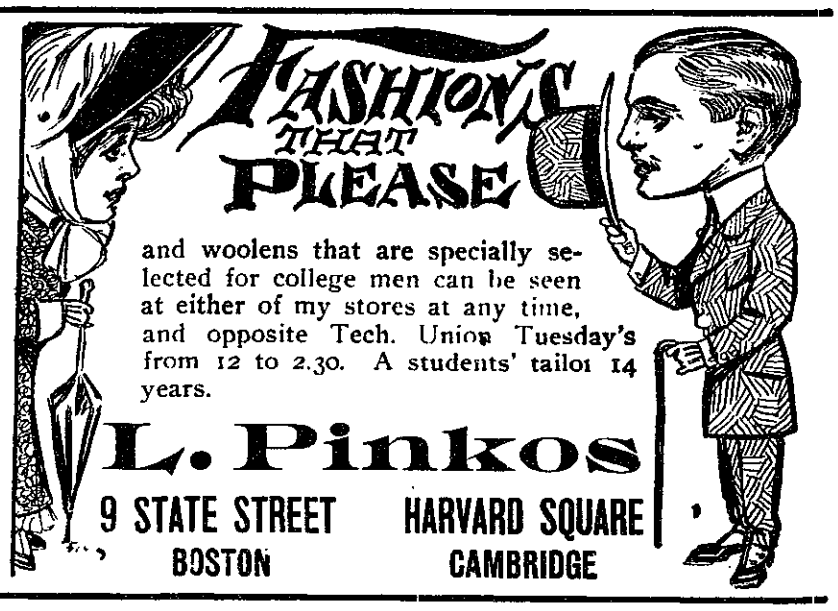

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CURRENT EVENTS.

In his message to Congress yesterday, Pres. Taft proposes a strengthening of the interstate commerce law and the Sherman anti-trust law. In both cases one aim of his suggestions is the prevention of the delay in the execution of justice now possible. For expediting the administration of the interstate commerce law he proposes a United States Court of Commerce. In regard to the handling of trusts he urges a "voluntary" Federal charter for corporations. The Court of Commerce, which which is to be composed of five judges, is to be composed of five judges, all cases for the enforcement of the orders of the Interstate Commerce Commission; to enjoin or set aside an order of the Commission; to enforce the Elkins Act and all mandamus proceedings under the interstate commerce law. The decisions of this court are to be final, subject only to review by the Supreme Court and the operation of the degree appealed from shall not be stayed unless the Supreme Court so orders, and an order of the Commission will be restrained only after notice and hearing, except irreparable damage would result from said restraint. The President further recommends that the power of the Commission to initiate and defend litigation be taken from it and lodged in an assistant attorney-general under the direct control of the Department of Justice.

For the first time in years, the Mississippi River is frozen over from St. Paul, Minn., to Grand Tower, Ill.

Announcement is made that another great British shipyard is to be constructed at Newcastle-on-Tyne. The site selected is said to have space for six berths large enough for the construction of vessels of the Superb-Dreadnought type.

SHOW POSTER ARTISTS

Designs Must Be Submitted By Next Saturday

All who are working on Tech Show Posters should be careful to see that all designs are in the hands of Publicity Manager H. C. Davis, Jr., before four o'clock on Jan. 15. A longer time has been granted this year than in former years, so it is absolutely necessary that the drawings be in on time so as to give the printer ample time to get them out. In case there are some who have not as yet seen the publicity manager, the following are the directions which must be carefully carried out:

The drawings must be either 20 in. x 40 in. or 26 1-2 in. x 42 in., and to contain three flat colors and no more. The words "Tech Show" and "The Queen of the Cannibal Isles" and a space in which to print the name of the theatre are to appear on the drawing. Further instructions can be obtained of H. C. Davis, Jr.

Remember, in order to make a bid for that $10 prize your design will have to be in before 4 o'clock on Jan. 15.

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GENERAL NOTICES.

FIRST YEAR.
Entrance Condition Examinations.

First-year students are expected to take at the end of the present term all entrance examinations in which they have not already clear records, with the following exceptions:

1. Students having conditions in entrance History and entrance Physics. No examination will be held in entrance History and entrance Physics at the semi-annual examination period.

2. Special students taking no work dependent on entrance subjects in which they have not clear records. Such students, if they desire to become regular, may take remaining examinations in June or September.

3. Students who are now making up entrance French and German by taking the elementary courses, although they are privileged to take these examinations.

4. Students entitled to excuse from particular entrance conditions on the basis of good term work. This applies to conditions in entrance Algebra, English, French, German, and Plane Geometry and students will be notified if excuse can be given.

For the Faculty Committee on Entrance Examinations.
WALTER HUMPHREYS,
Registrar.
December 14, 1909.

MILITARY SCIENCE.

The Drill hour, on Mondays and Fridays, on and after January 3rd will be changed from three to two o'clock .
WALTER HUMPHREYS,
Registrar.

All candidates for the 1913 Indoor Track Team report at Gym on Monday, Tuesday, Thursday and Saturday.
H. S. BENSON, Mgr.

LIBRARY.

Receipts, dated but not signed, for the following books have been left in the General Library:

July 1, 1909—Statham, H. H. Architecture for General Readers.

November 16, 1909—Macaulay, T. B. History of England, Vol. I.

The borrowers are requested to return these books.

MUSICAL CLUBS.

Musical Clubs meet at Marceau's for picture at 1.30 P. M., Sat. Jan. 8th. Bring instruments.

Facilities for dressing at studio.

THIRD YEAR.

Professor Currier will be unable to meet his classes this week.

JUNIORS.

Junior Class Picture for Technique will be taken Tuesday, January 11, at 1.00 P. M. on Rogers Steps. All Juniors please be present.

Any Junior who has not received a copy of the questions for the Statisticians Department of Technique may have same by applying at Cage.

PHI DELTA THETA.

All members of Phi Delta Theta Fraternity in attendance at the Institute are requested to send their names to H. E. Beebe, 25 St. James Ave., or the Cage.

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GYM TEAM.

Special meeting Monday, January 10, at Gym 4.30. All candidates are requestd to attend.
R. M. JACOBY, Mgr.

INTERCOLLEGIATE NEWS

"The returns for the last term of scholarship marks at the office of the dean of the college show an uncommonly good record for the men of the football squad," says the Yale Alumni Weekly. "Bettered scholarship has synchronized with the training of a championship team, and, perhaps, the best team that has ever represented Yale on the gridiron. Such a result for a single season is not, of course, conclusive. It may possibly be a coincidence rather than a co-relation of athletic and mental forces. But it does make pretty strongly for the idea that in case of the individual athlete there is no excuse for his charging athletics with his low scholarship stand if he has one."

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